

# Estimating Sums and Differences

**R 1-5**

Estimate  $2,675 - 189$ .

Determine the greatest place value of the lesser number.

hundreds

Round both numbers to this place.

$189 \rightarrow 200$

$2,675 \rightarrow 2,700$

Subtract the rounded numbers.

$2,700 - 200 = 2,500$

You can also estimate by using front-end estimation with and without adjusting.

Estimate  $8,243 + 4,686 + 129$ .

Front-end Estimation	Front-end Estimation with Adjusting
$\begin{array}{r} 8,243 \\ 4,686 \\ + 129 \\ \hline 12,000 \end{array}$ <p>Add only the first digits that have the same place value to get a rough estimate.</p>	$\begin{array}{r} 8,243 \\ 4,686 \\ + 129 \\ \hline 12,000 \\ + 900 \\ \hline 12,900 \end{array}$ <p>Add thousands. Add hundreds. Adjusted estimate</p>

Clustering can be used when the numbers are close to each other.

Estimate  $252 + 297 + 305 + 327$ .

$$\begin{array}{cccc} \downarrow & \downarrow & \downarrow & \downarrow \\ 300 & + 300 & + 300 & + 300 = 1,200 \end{array}$$

Estimate each answer. Tell which method you used.

1.  $196 + 29$  \_\_\_\_\_

2.  $3,769 + 4,109$  \_\_\_\_\_

3.  $4,312 - 1,162$  \_\_\_\_\_

4.  $369 + 409 + 430 + 378$  \_\_\_\_\_

5. **Reasonableness** Is 5,500 a reasonable estimate for  $5,128 + 921$ ? Why or why not?

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